Amendments to the Claims:

Please cancel all claims and add the new following claims:

1-85 (Canceled).

86. (New) A two-hybrid screening method for identifying a pair of molecules that interact with a proline-rich nuclear receptor co-regulatory protein (PNRC) molecule via the binding sequence of SEQ ID NO:5, wherein said pair of molecules consists of a nuclear hormone receptor peptide molecule and a ligand molecule, the method comprising:

    a.   providing a cell culture that (1) expresses a bait PNRC fusion molecule which comprises said PNRC molecule and (2) contains a reporter gene, wherein the expression of said reporter gene depends on binding of said bait PNRC fusion molecule to said nuclear hormone receptor peptide molecule;

    b.   transfecting said cell culture with an expression library of nucleic acids that encode said nuclear hormone receptor peptide molecules to be screened, to produce a library of cells that express said nuclear hormone receptor peptide molecules to be screened and said bait PNRC;

    c.   dividing said cells into first and second portions;

    d.   growing said first portion of said cells in the presence of said ligand molecule to be screened;

    e.   growing said second portion of said cells in the absence of said ligand molecule to be screened;

f.   comparing the level of expression of said reporter gene in the cells of said first and second portions; and

g.   if cells of said first and second portions express said reporter gene at different levels, identifying said pair of molecules as interacting with PNRC.

87. (New) A two-hybrid screening method of claim 86 wherein said PNRC molecule is selected from the group consisting of SEQ ID NO:8, SEQ ID NO:9 and a fragment thereof, wherein said PNRC molecule contains said binding sequence of SEQ ID NO:5.

88. (New) The method of claim 87 wherein said PNRC molecule is SEQ ID NO: 9 or a fragment thereof.

89. (New) The method of claim 87 wherein said PNRC molecule is SEQ ID NO: 8 or a fragment thereof.

90. (New) The method of claim 86 wherein said nuclear hormone receptor peptide molecule and said ligand molecule are selected from the sets of (i) estrogen receptor and estradiol, (ii) glucocorticoid receptor and deoxycorticosterone, (iii) androgen receptor and dehydrotestosterone, (iv) progesterone receptor and progesterone, (v) thyroid hormone receptor and T3, (vi) retinoic acid receptor and all-*trans*-retinoic acid, and (vii) 9-*cis*-retinoic acid receptor and 9-*cis*-retinoic acid.

91. (New) A two-hybrid screening method for identifying a pair of molecules that interact with a proline-rich nuclear receptor co-regulatory protein (PNRC) molecule via the binding sequence of SEQ ID NO:5, wherein said PNRC molecule is selected from the group consisting of SEQ ID NO:8, SEQ ID NO:9 and a fragment

thereof, wherein said PNRC molecule contains said binding
sequence of SEQ ID NO:5, and wherein said pair of molecules
consists of a nuclear hormone receptor peptide molecule and a
ligand molecule, the method comprising:

a. providing a cell culture (1) that expresses a bait PNRC
    fusion molecule which comprises said PNRC molecule and
    (2) that contains a reporter gene, wherein the expression
    of said reporter gene depends on binding of said bait
    PNRC fusion molecule to said nuclear hormone receptor
    peptide molecule;

b. transfecting said cell culture with an expression library
    of nucleic acids that encode said nuclear hormone
    receptor peptide molecules to be screened, to produce a
    library of cells that express said nuclear hormone
    receptor peptide molecules to be screened and said bait
    PNRC;

c. dividing said cells into first and second portions;

d. growing said first portion of said cells in the presence
    of said ligand molecule to be screened;

e. growing said second portion of said cells in the absence
    of said ligand molecule to be screened;

f. comparing the level of expression of said reporter gene
    in the cells of said first and second portions; and

g. if cells of said first and second portions express said
    reporter gene at different levels, identifying said pair
    of molecules as interacting with PNRC.

92. (New) The method of claim 91 wherein said PNRC molecule is
SEQ ID NO: 9 or a fragment thereof.

93. (New) The method of claim 91 wherein said PNRC molecule is SEQ ID NO: 8 or a fragment thereof.

94. (New) The method of claim 90 wherein said nuclear hormone receptor peptide molecule and said ligand molecule are selected from the sets of (i) estrogen receptor and estradiol, (ii) glucocorticoid receptor and deoxycorticosterone, (iii) androgen receptor and dehydrotestosterone, (iv) progesterone receptor and progesterone, (v) thyroid hormone receptor and T3, (vi) retinoic acid receptor and all-*trans*-retinoic acid, and (vii) 9-*cis*-retinoic acid receptor and 9-*cis*-retinoic acid.